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SMX 2020.2
(2002-105(PCT/US)(H103-0017-US02)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Qun Fan et al.
Serial No. 10/559,720
Filed December 5, 2005
For PLATINUM-TITANIUM-TUNGSTEN FUEL CELL CATALYST

March 17, 2006

TO THE COMMISSIONER FOR PATENTS,

SIR:

INFORMATION DISCLOSURE STATEMENT

* In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants submit the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

Applicants submit herewith copies of the foreign patent documents and/or literature references. Some of the attached Japanese references include English abstracts. Applicants do not make any representation as to the accuracy of the additional information.

The Commissioner is hereby authorized to charge to Deposit Account No. 19-1345 an amount sufficient to cover the fee specified in 37 C.F.R. §1.17(p) for submission of this Supplemental Information Disclosure Statement, should a fee be required.

Respectfully submitted,

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PTO/SB/08A INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/559,720
		Filing Date	December 5, 2005
		Confirmation Number	
		First Named Inventor	Qun Fan et al.
		Group Art Unit	1793
		Examiner Name	Hailey
Sheet 1 of 3	Attorney Docket No.		SMX 2020.2 (2002-105(PCT/US))

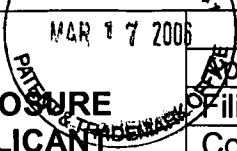
U.S. PATENT DOCUMENTS					
Examiner Initials*	U.S. Patent Document No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
/LH/	1	3,711,385		Beer et al.	01-16-1973
	2	4,261,742	A	Coupland et al.	04-14-1981
	3	4,061,495	A	Selman et al.	12-06-1977
	4	4,261,742	A	Coupland et al.	04-14-1981
	5	4,677,035	A	Fiedler et al.	06-30-1987
	6	4,683,119		Selman et al.	07-28-1987
	7	4,737,205		Selman et al.	04-12-1988
	8	4,885,216	A	Naik	12-05-1989
	9	5,068,161		Keck et al.	11-26-1991
	10	5,077,141	A	Subhash K. Naik et al.	12-31-1991
	11	5,126,216		Capuano et al.	06-30-1992
	12	5,516,381	A	Hisataka Kawai et al.	05-14-1996
	13	5,876,867		Itoh et al.	03-02-1999
	14	5,939,220		Gunner et al.	08-17-1999
	15	6,036,791	A	Mitsubishi et al.	03-14-2000
	16	6,045,671		Wu et al.	04-04-2000
	17	6,048,633		Fuji et al.	04-11-2000
	18	6,127,058		Pratt et al.	10-03-2000
	19	6,187,164		Warren et al.	02-13-2001
	20	6,187,468		Shinkai et al.	02-13-2001
	21	6,225,011		Gotoh et al.	05-01-2001
	22	6,268,077		Kelley et al.	07-31-2001
	23	6,294,280		Tanaka et al.	09-25-2001
	24	6,322,643	B1	Mitsubishi et al.	11-27-2001
	25	6,632,299	B1	Harris	10-14-2003
/LH/	26	6,730,350		Finkelshtain et al.	05-04-2004

Examiner Signature	/Patricia Hailey/	Date Considered	10/24/2008
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/LH/	27	2002/0004453		Katori et al.	07-22-2004
/LH/	28	2004/0142230		Haugen et al.	01-10-2002

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office	Number ⁴	Kind Code (if known)			
/LH/	29	BE	895 174	A	Johnson Matthey PLC	05-30-1983	
	30	GB	2 029 857	A	J.E. Restall et al.	03-26-1980	
	31	GB	2 033 925	A	Johnson Matthey Co Ltd.	05-29-1980	
	32	JP	2003-80085		Sony Corp.	03-18-2003	A
	33	JP	01 021030	A	Nippon Mining Co Ltd.	01-24-1989	A
	34	JP	2001 294959	A	Mitsubishi Heavy Ind Ltd.	10-26-2001	A
	35	JP	08 100255	A	Mitsubishi Materials Corp.	04-16-1996	A
	36	JP	07 050008	A	Showa Denko KK	02-21-1995	A
	37	JP	06 065601	A	Mitsubishi Materials Corp.	03-08-1994	A
	38	JP	63 149356	A	Res Inst Electric Magnetic Alloys	06-22-1988	A
	39	JP	62 107040	A	Sumitomo Metal Ind Ltd	05-18-1987	A
	40	JP	04 072029	A	Mitsubishi Materials Corp.	03-06-1992	A
	41	JP	04 066635	A	Mitsubishi Materials Corp.	03-03-1992	A
	42	JP	04 066632	A	Mitsubishi Materials Corp.	03-03-1992	A
	43	EP	0855 449	A	Mitsubishi Materials Corp.	07-29-1998	
	44	EP	1080435	B1	Lacy et al.	03-07-2001	
	45	WO	99/16137		Narayanan et al.	04-01-1999	
	46	WO	00/35037	A	Johnson Matthey PLC	06-15-2000	
/LH/	47	WO	02/22901	A	Cannon Muskegon Corp	03-21-2002	

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Sheet	3	of	3	Attorney Docket No.	SMX 2020.2 (2002-105(PCT/US))

OTHER ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		T ⁶
/LH/	48	CHU, D. et al. – J. Electrochem. Soc. 1996, 143, 1685		
↓	49	COUPELAND et al. – Platinum Metals Review, vol. 26, no. 4, 1982, pp. 146-157		
	50	DAE-HEE YE et al. – Korean Journal of Materials Research, vol. 12, no. 12, 2002, pp. 897-903		
	51	RALPH, T.R. et al. – Catalysts for Low Temperature Fuel Cells Part 1: The Cathode Challenges, Platinum Metals Rev., 2002, 46, (1), pp. 3-14		
	52	SCHMIDT et al. – Rotating disk electrode measurements on the CO tolerance of a high-surface area Pt/Vulcan carbon fuel cell electrocatalyst, Journal of the Electrochemical Society, 1999, 146(4), pp. 1296-1304		
	53	SCHMIDT et al. – Characterization of high-surface-area electrocatalysts using a rotating disk electrode configuration, Journal of the Electrochemical Society, 1998, 145(7), pp. 2354-2358		
↓	54	STRASSER, P. et al. – Combinatorial Electrochemical Strategies For the Discovery of New Fuel-Cell Electrode Materials, Proceedings of the International Symposium on Fuel Cells for Vehicles, 41st Battery Symposium, The Electrochemical Society of Japan, Nagoya 2000, pp. 34-35		
	55	STRASSER, P. et al. – Combinatorial Electrochemical Techniques for the Discovery of New Fuel-Cell Cathode Materials, 2001, Vol. 2001-4, Direct Methanol Fuel Cells, Proceedings of the Electrochemical Society, New Jersey, Zawodzinski, T., eds, pp. 191-208		
	56	International Search Report for Application No. PCT/US2004/017876 dated 10-29-04, 7 pages		
↓ /LH/	57	YASUDA et al., Polymerization-Pressure Dependencies of Properties of Perfluorosulfonate Cation-Exchanger Thin Films by Plasma Polymerization, Ber. Bunsenges. Phys. Chem. 98, No. 4, 1994, pp. 631-635.		

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